



UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

ML

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
-----------------	-------------	----------------------	---------------------

09/559,348 04/27/00 SEMBONMATSU S Q059017

EXAMINER

QM22/0518

SUGHRUE MION ZINN
MACPEAK & SEAS PLLC
2100 PENNSYLVANIA AVENUE NW
WASHINGTON DC 20037-3202

ART UNIT	PAPER NUMBER
----------	--------------

LUONG, S

3728

DATE MAILED:

05/18/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

002247 242635

Office Action Summary	Application No. 09/559,348	Applicant(s) SEMBONMATSU ET AL.	
	Examiner Shian T. Luong	Art Unit 3728	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 April 2001.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-16 is/are pending in the application.
- 5) ☐ 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 6) ☐ Claim(s) _____ is/are allowed.
- 7) ☒ Claim(s) 1 and 3-16 is/are rejected.
- 8) ☐ Claim(s) _____ is/are objected to.
- 9) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 12) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 13) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 14) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 15) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- | | |
|---|--|
| 16) <input type="checkbox"/> Notice of References Cited (PTO-892) | 18) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 17) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 19) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 18) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> . | 20) <input type="checkbox"/> Other: |

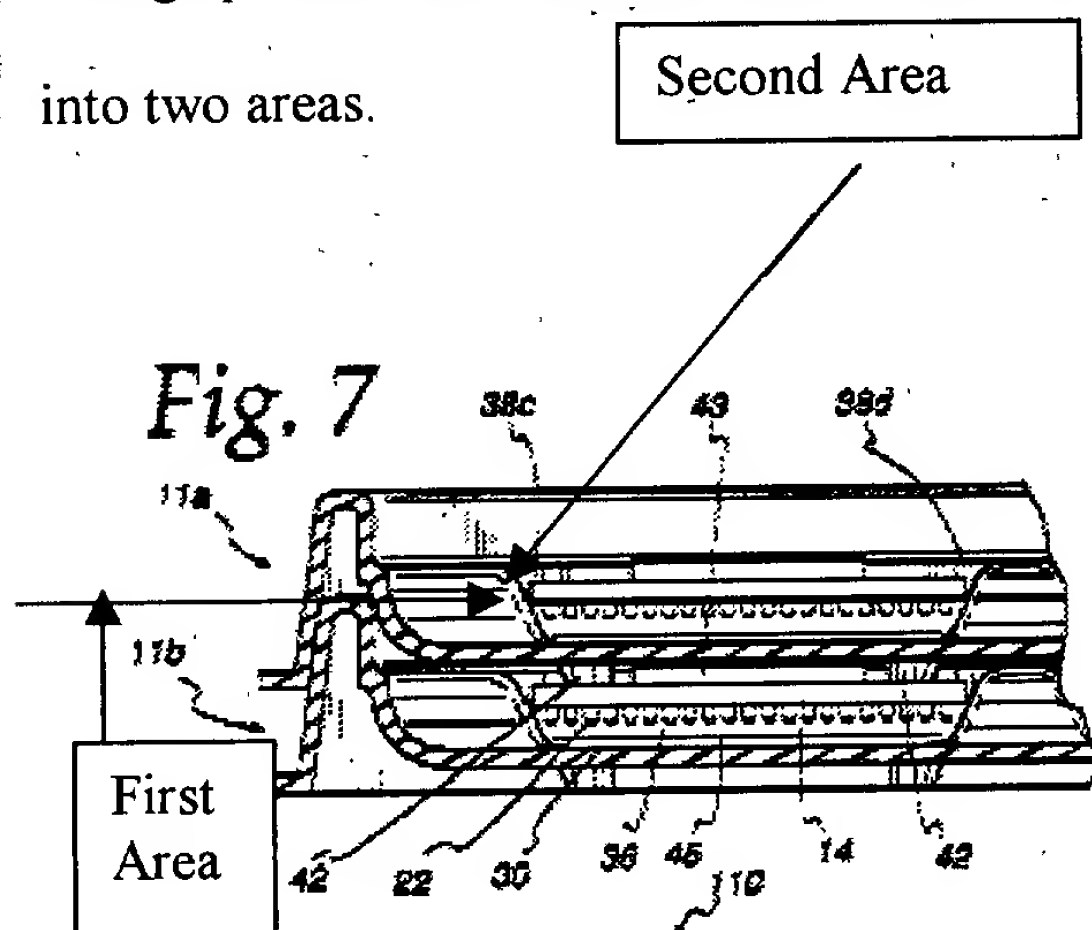
Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1, 3-6, 8, 13 and 15 are finally rejected under 35 U.S.C. 102(b) as being anticipated by Pakeriasamy (US 5,957,293). Pakeriasamy discloses a tray comprising a substantially planar main body 10 with a first storage portion 24 provided on a first surface of the main body and a second storage portion on the second surface of the main body. The first storage portion each has inclined surface as shown in Figure 7. The inclined surface is divided into two areas.



Art Unit: 3728

storage portion. The positioning means for the stacked trays is the outer peripheral surfaces wherein the upper tray receives the lower tray. Applicant argues that specification does not disclose side walls with two separate inclined areas. However, Figure 7 as pointed out above, shows two separate inclined surfaces. The BGA package is held at four walls 38a-d to elevate the package above a bottom surface of the carrier. Applicant also argues that the second storage pocket of Pakeriasamy cannot hold a BGA package. To the contrary, Figure 7 shows a second BGA package disposed within the second storage area surrounded by standoffs of an upper tray and the first storage portion of the lower tray. When the tray is turned over, the wiring terminal will face upward.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 7, 9, 14 and 16 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Pakeriasamy in view of Nemoto. Pakeriasamy discloses all of the elements of the claims, except for the second storage pocket with inclined wall surface. However, Nemoto suggests providing a second storage pocket as shown in Figure 8b wherein the angled protruding portions engage both a top surface and the corner of a component to stabilize the component and prevent movement vertically and horizontally. Therefore, it would have been obvious in view of Nemoto

Art Unit: 3728

to move the protruding portions of Pakeriasamy outwardly to prevent eh component from movement.

5. Claims 10-12 are finally rejected under 35 U.S.C. 103(a) as being unpatentable over Pakeriasamy. Although Pakeriasamy does not disclose the specific angle of inclination. The main objective of the two inclinations is to prevent the BGA device from contacting the lower surface of the pocket. This is clearly met by pakeriasamy. Therefore, it would have been obvious to provide 40 to 70 degrees angle for the first area and an angle of 85 to 90 degrees for the second area to accommodate the device.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Art Unit: 3728

Telephone inquiries regarding the status of applications or other general questions, by persons entitled to the information, should be directed to the group clerical personnel and not to the examiners. In as much as the official records and applications are located in the clerical section of the examining groups, the clerical personnel can readily provide status information without contacting the examiners, M.P.E.P. 203.08. The Group clerical receptionist number is (703) 308-1148.

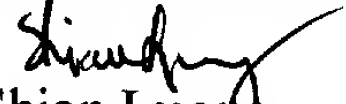
If in receiving this Office Action it is apparent to applicant that certain documents are missing, e.g., copies of references cited, form PTO-1449, form PTO-892, etc., requests for copies of such papers should be directed to Valerie Douglas at (703)308-1337.

For applicant's convenience, the Group Technological Center FAX number is (703) 305-3579 or (703)305-3580. This practice may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a PTO deposit account. Please identify Examiner Luong of Art Unit 3728 at the top of your cover sheet of any correspondence submitted.

Inquiries concerning the merits of the examination should be directed to Shian Luong whose telephone number is (703) 308-2039.

STL

May 16, 2001

Patent Examiner

Shian Luong